Serving the Indian Industry Since 1949

S.M.STEEL

Steeling The Future

We are a third generation business house (established in 1949 by Mr. M.R.Malhotra).

S.M.Steel, was established in 1996 as a steel trading outlet.

One of the leaders in the industry, the company is an influential business house in India and has a long history of providing clients with first rate, quality products with punctual services.

Head quartered in Faridabad, India, the Company currently operates two major outlets and also imports niche grades from European steel producers.

Employing an experienced team of 10 highly successful professionals, the Company has a reasonable market share.

Mr. S.Malhotra serves in the position of Partner with **S.M.Steel** leveraging extensive business and professional qualifications. With fresh ideas, a focus on accountability and new business insights that extend beyond traditional thinking.

Mr. S.Malhotra furnishes the strategic vision and motivation behind the Company's success and promotes a culture which upholds the highest standards of integrity and probity.

Key Factors :
Fulfilling Customer's Quality requirement
Executing Timely Deliveries
Excellent surface finish
Maintaining Close tolerance on thickness
Traceability : Supplies are certified with test results

Applications of Alloy Steels are vast such as in : [Automobile Industry, Clutch plates, Horn, Reg]

PRODUCT RANGE

C55 grade Cold Rolled & Annealed Steel Strips

Composition: C: 0.5-0.6%, Mn: 0.5-0.9%, Si: 0.15% Max, S&P: 0.04% Max

Normally this grade is stocked in Annealed conditioned with 190 HV Max. Hardness. Strips can also be supplied in different temper in range of 200-350 HV on request. These strips are available in stock in thickness ranging from 4.0 to 0.25 mm in width of 250-350 mm, this can be slitted, decoiled and levelled as per the customer's request.

This grade is similar to following grades
*AISI 1055, *CK 60 (DIN), *EN 43 C 5 10 (BS), *JIS : 11, *JIS S 50C & S 50C/Sup 9, *ISO8 of IS 2007 of 1975.

These strips are supplied in bright finish & sheared edges suitable for bending & forming and then heat treated for required hardness.

C60 grade Cold Rolled & Annealed Steel Strips

Composition: C: 0.75-0.9%, Mn: 0.5-0.9%, Si: 0.15-0.35%, S&P: 0.04% Max

This grade of Strip is stocked in Annealed conditioned with 200 HV Max Hardness. However can also be supplied in different temper in range of 200-400 HV on request. These strips are available in stock in thickness range from 4.0 to 0.25 mm in width of 250-350 mm, this can be slitted, decoiled as per the customer's request.

This grade compare well with following grades.
*AISI 1060/1065, *CK 75/80 (DIN), *HC 14/EN 42J/DIN 17200, *BS 08 of IS 2007 of 1975, *JIS S 60C & Sup 3.

These strips are supplied in bright finish & sheared edges suitable for bending & forming and then heat Treated for required Hardness.

These strips are widely used for manufacturing Circlips, washers, Spring Dowels, Clutch Segment

These strips are widely used for making Coil Springs, Valves, and Mostly Used as saw Steel, Steel for Springs, Steel for heavy tools which do not require severe bending or forming.

C98 grade Cold Rolled & Annealed Steel Strips

These Strips are stocked in different width, finish and hardness range between 40-50 HRC (Dia. Size of hardened and Tempered Spring Steel Strips) in Grey, Bright polished, Blue polished surface finish.

Composition: C: 0.75-0.9%, Mn: 0.5-0.9%, Si: 0.10-0.35%, S&P: 0.04% Max.

These strips can be sheared with low burrs to customer's width requirements. On request and short lead time, tailor made Strips can be supplied as per customer's requirement of hardness, width, surface finish & different edges.

This grade compare well with following grades.
*AISI 1060/1065, *CK 75/80 (DIN), *HC 14/EN 42J/DIN 17200, *JIS S 60C & Sup 3.

C98 grade Hardened and Tempered Spring Steel Strips

These Strips are stocked in different width, finish and hardness range between 40-54 HRC

Composition: C: 0.95-1.0%, Mn: 0.5-0.9%, Si: 0.10-0.35%, S&P: 0.04% Max.

This grade of strip is stocked in Hardened & Tempered condition, in 450 HV - 550 HV. On request and short lead time, tailor made Strips can be supplied as per customer's requirement of hardness, width, surface finish & different edges.

This grade compare well with following grades: *AISI 1095, *20C

These strips are widely used for manufacturing Doctor's Blade, Compressor Valves, Shock Absorber Valves.

Circlips, Locks, Wheel Balancing Weights, Driving Seat Belts, Chains, Shims, Gaskets etc...

Hand and Garage Tools, Shoe Shanks, Gardening Tools, Masonry Tools, Thresher Knives, Profile cutting Knives, Paper, Rubber cutting Knives etc.)

PHYSICAL PROPERTIES

Grade	Designation	ANNEALED: Vickers Hardness Max	ANNEALED: Yield Strength N/mm² Min	ANNEALED: Tensile Strength N/mm² Max	ANNEALED: Elongation Percent Min	HARDENED AND TEMPERED: Vickers Hardness Min	HARDENED AND TEMPERED: Yield Strength N/mm² Min	HARDENED AND TEMPERED: Tensile Strength N/mm² Min	HARDENED AND TEMPERED: Elongation Percent Min. (Gauge Length 5.65)
1	SAE 1	190	275	380	30	380 to 430	1100	1200 to 1400	10
2	SAE 2	190	275	380	30	400 to 450	1150	1250 to 1450	10
3	SAE 3	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
4	SAE 4	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
5	SAE 5	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
6	SAE 6	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
7	SAE 7	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
8	SAE 8	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
9	SAE 9	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
10	SAE 10	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
11	SAE 11	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10
12	SAE 12	190	275	380	30	450 to 500	1250 to 1400	1350 to 1550	10

HARDNESS CONVERSION TABLE

HRC	HRB	HRA	Vickers	Ultimate Kg/mm sq	Tensile Strength N/mm sq
60	-	-	697		
59	-	-	674	225.00	2205.00
58	-	-	653	221.48	2200.00
57	-	-	633	214.63	2105.00
56	-	-	613	207.81	2113.00
55	-	-	595	201.19	2055.00
54	-	-	577	195.06	1955.00
53	-	-	560	189.13	1855.00
52	-	-	544	184.21	1875.00
51	-	-	528	177.60	1814.00
50	-	-	513	173.20	1795.00
49	-	-	498	168.08	1714.00
48	-	-	484	163.11	1663.00
47	-	-	471	158.18	1613.00
46	-	-	458	153.67	1570.00
45	-	-	446	149.05	1520.00
44	-	-	434	144.60	1477.00
43	-	-	423	141.00	1441.00
42	-	-	412	137.79	1405.00
41	-	-	402	134.28	1369.00
40	-	-	392	130.78	1335.00
39	-	-	382	127.24	1297.00
38	-	-	372	123.73	1262.00
37	-	-	363	120.92	1235.00
36	108.00	-	354	118.10	1204.00
35	106.00	-	345	114.98	1168.00
34	104.00	-	336	111.78	1140.00
33	102.00	-	327	108.68	1104.00
32	100.00	-	318	105.49	1075.00
31	98.00	-	310	102.61	1046.00
30	96.00	-	302	99.82	1017.00
29	94.00	-	294	97.01	989.00
28	92.00	-	286	94.20	960.00
27	90.00	-	279	92.00	938.00
26	88.00	-	272	89.28	909.00
25	87.00	-	265	87.17	889.00
24	85.00	-	260	85.06	866.00
23	83.00	-	254	82.95	845.00
22	81.00	-	248	80.84	823.00
21	80.00	-	243	78.75	802.00
20	78.00	-	238	77.34	788.00
19	76.00	-	230	74.52	760.00
18	75.00	-	222	71.70	731.00
17	73.00	-	213	68.88	701.00
16	72.00	-	204	66.08	674.00
15	70.00	-	196	63.27	645.00
14	68.00	-	188	61.16	623.00
13	67.00	-	180	58.24	593.00

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